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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/342,768	06/29/1999	SCOTT BERMINGHAM DOYLE	17286	7075
7590 12/28/2004			EXAM	INER
THE WHITAKER CORPORATION			NGUYEN, THUAN T	
4550 NEW LINDEN HILL ROAD SUITE 450 WILMINGTON, DE 19808			ART UNIT PAP	PAPER NUMBER
		2685	<del>-</del>	

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)			
Office Action Summary		09/342,768	DOYLE ET AL.			
		Examiner	Art Unit			
		THUAN T. NGUYEN	2685			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	correspondence address			
THE I - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[	Responsive to communication(s) filed on	<u>_</u> .				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowa	nce except for formal matters, pre	osecution as to the merits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
4)⊠	Claim(s) <u>1-6</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-6</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)[	The specification is objected to by the Examine	er.				
10)🛛	The drawing(s) filed on 29 June 1999 is/are: a	)⊠ accepted or b)⊡ objected to	by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)[	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign ☐ All  b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority document					
	3. Copies of the certified copies of the prior		ed in this National Stage			
* 0	application from the International Bureau					
" <b>S</b>	see the attached detailed Office action for a list	of the certified copies not receive	ed.			
•						
Attachment			(DTO 110)			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P	Patent Application (PTO-152)			
Pape	r No(s)/Mail Date	6) Other:				

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#### **DETAILED ACTION**

## Response to Arguments

- 1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 2. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Blasing et al. (U.S. Patent No. 6,052,582/ or "Blasing" hereinafter).

Regarding claim 1, Blasing discloses "a local multipoint distribution service system (LDMS) having comprising an antenna for transmitting a signal of reused frequency within a specified range from the antenna, the antenna having multiple radiating antenna elements provided with the signal, the signal provided to each of the antenna elements being adjusted in phase and in amplitude across the radiating elements to mitigate radiation above horizon, and the signal provided to each of the antenna elements being adjusted in phase and in amplitude to

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decrease attenuation in radiated power with distance from the antenna" (see Fig. 19, col. 13/line 64 to col. 14/line 7 for LMDS; col. 5/lines 3-35 for the advantage of re-use of frequency within the Blasing's system as further noted in col. 16/line 62 to col./ 17/line 32 for LMDS; and Fig. 46 /items 376 & 396 for variable attenuators and items 378, 382, 398, 404 for phase shifters for amplitude and phase adjusting of radiating antenna elements; Figs. 2, 4, 5, 43B and col. 8/lines 33-56 for mitigating radiation above horizon of the signal provided to each of the radiating elements of the antenna; and col. 22/lines 20-53 for sidelobe levels referred to attenuation in radiated power with distance away from the antenna as some excess power is unnecessary).

As for claim 2, in further view of claim 1 above, Blasing further suggests the step of "each of the antenna elements being adjusted in phase and amplitude of signal across the antenna elements to mitigate nulls between lobes of combined radiated signals collectively from the antenna elements", i.e., the maximum and minimum power level is maintained by implementing the low sidelobe levels in adjacent sectors to avoid unwanted signals for the shaped beam antenna (see col. 22/lines 20-53).

With respect to claim 3, in further view of claim 1 above, Blasing further discloses "each of the antenna elements being adjusted in phase and in amplitude of signal across the antenna elements to reduce excess signal power at near range", i.e., an excess power output is reduced at near range or at adjacent sectors by eliminating unwanted energy from using low sidelobe antennas (see col. 22/lines 20-53 as sidelobe is maintained for mitigating interference at a reduced level from 3dB reduced to 1 dB).

As for claims 4-6, a corresponding method for use in the disclosed system is rejected for the reasons given in the scope of the system claims 1-3 as already disclosed above.

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#### Conclusion

5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is (703) 306-0377.

TONYT. NGUYEN PATENT EXAMINER

Tony T. Nguyen Art Unit 2685 December 17, 2004